AMENDMENTS TO THE CLAIMS

1-3. (Cancelled)

4. (Currently Amended) An optimal recording method for optical recording media, comprising the steps of:

reading out a reference recording condition recorded on an optical recording medium;

recording test data while varying a recording condition with respect to the reference recording condition;

deriving an optimum recording condition, based on reproduction characteristics of the test data; and

generating information for managing the history of a recording environment variation occurring in association with the derived recording condition, and recording the information onto an area of the optical recording medium,

wherein the area of the optical recording medium is a lead-in area or an area inner than the lead-in area of the optical recording medium.

5. (Original) The optimal recording method according to claim 4, wherein the recording environment variation is a variation of an apparatus used to record data onto the optical recording medium.

6. (Original) The optimal recording method according to claim 4, wherein the recording environment variation is a variation in a record speed used to record data onto the optical recording medium.

7. (Original) The optimal recording method according to claim 4, wherein the history management information is an optimum recording condition meeting the recording condition variation.

8. (Original) The optimal recording method according to claim 4, wherein the history management information is an optimum recording condition meeting the recording condition variation, the history managing information being recorded in addition to management information generated for every record unit.

9. (Currently Amended) An optimal recording method for optical recording media, comprising the steps of:

reading out a reference recording condition recorded on an optical recording medium;

recording test data while varying a recording condition with respect to the reference recording condition;

deriving an optimum recording condition, based on reproduction characteristics of the test data; and

generating information for managing the history of a recording environment variation occurring in association with the derived recording condition, and recording the information onto an area of the optical recording medium,

~~The optimal recording method according to claim 4,~~ wherein the ~~history management information is recorded onto a count area of the optical recording medium or~~ area of the optical recording medium includes respective lead-in areas of sessions of the optical recording medium.

10. (Original) The optimal recording method according to claim 4, wherein data is recorded on a desired region of the optical recording medium, along with information indicative of an optimum recording condition for the data.

11. (Original) The optimal recording method according to claim 4, wherein the optimum recording condition includes at least information for identifying an apparatus used to record data onto the optical recording medium, an optimum recording power value, and information about record speed.

12. (Original) The optimal recording method according to claim 11, wherein the optimum recording condition including the information for identifying the apparatus used to record data onto the optical recording

medium, the optimum recording power value, and the information about record speed is repeatedly recorded by an allowable number of times.

13-21. (Cancelled)

22. (Currently Amended) A method for recording data on an optical recording medium, comprising the steps of:

reading out a reference recording condition recorded on an optical recording medium;

recording test data while varying a recording condition with respect to the reference recording condition;

determining an optimum recording power, based on reproduction characteristics of the test data; and

recording a ~~recoding~~ recording condition data including the optimum recording power, recorder identification, recording speed and write strategy on a specific area of the optical recording medium,

wherein the specific area of the optical recording medium is a lead-in area or an area inner than the lead-in area of the optical recording medium.

23. (Canceled)

24. (Currently Amended) The method of claim [[23]] 22, wherein the ~~area inner than the~~ specific area includes respective lead-in areas ~~is~~

~~count area to identify a number of performed test recording~~ of sessions of the optical recording medium.

25. (Currently Amended) The method of claim 22, wherein the recording condition data is recorded repeatedly on the specific area.

26. (Previously Presented) The method of claim 22, wherein the recording condition data further includes a synch code.

27. (Previously Presented) The method of claim 22, wherein the recording condition data further includes a classification data to identify the recording condition data.

28. (Currently Amended) A method for recording data on an optical recording medium, comprising the steps of:

reading out a reference recording condition recorded on an optical recording medium;

recording test data while varying a recording condition with respect to the reference recording condition and a predetermined recording speed;

determining an optimum recording power, based on reproduction characteristics of the test data; and

recording a ~~recoding~~ recording condition data including the optimum recording power for the specific recording speed and write

strategy for the specific recording speed to be used or used to record data, on a specific area of the optical recording medium,

wherein the specific area of the optical recording medium is a lead-in area or an area inner than the lead-in area of the optical recording medium.

29. (Currently Amended) A method for recording data on an optical recording medium, comprising the steps of:

reading out a reference recording condition recorded on an optical recording medium;

recording test data while varying a recording condition with respect to the reference recording condition and a predetermined recording speed;

determining an optimum recording power, based on reproduction characteristics of the test data; and

recording a recoding condition data including the optimum recording power for the specific recording speed and write strategy for the specific recording speed to be used or used to record data, on a specific area of the optical recording medium ~~The method of claim 28~~,

wherein the specific area ~~is~~ includes lead-in areas ~~or an area inner than the lead-in area~~ of sessions of the optical recording medium.

30. (Currently Amended) The method of claim [[29]] 28, wherein ~~each~~ in the step of recording the recording condition data, recording

condition data for different recording speeds is recorded on the specific area.

31. (Currently Amended) The method of claim 30, wherein ~~each~~ in the step of recording the recording condition data, the recording condition data for different recorder Ids is recorded on the specific area.

32. (Currently Amended) The method of claim 31, wherein the recording condition data further includes a classification data to identify the ~~different~~ recording condition data.

33. (Previously Presented) The method of claim 28, wherein the recording condition data further includes a synch code.

34. (Currently Amended) The method of claim 28, wherein the recording condition data further includes a recorder ID identifying a device where the recording is performed.

35. (Previously Presented) The method of claim 28, wherein the recording condition data further includes a classification data to identify the recording condition data.